

Human Granulocytic Anaplasmosis (HGA)

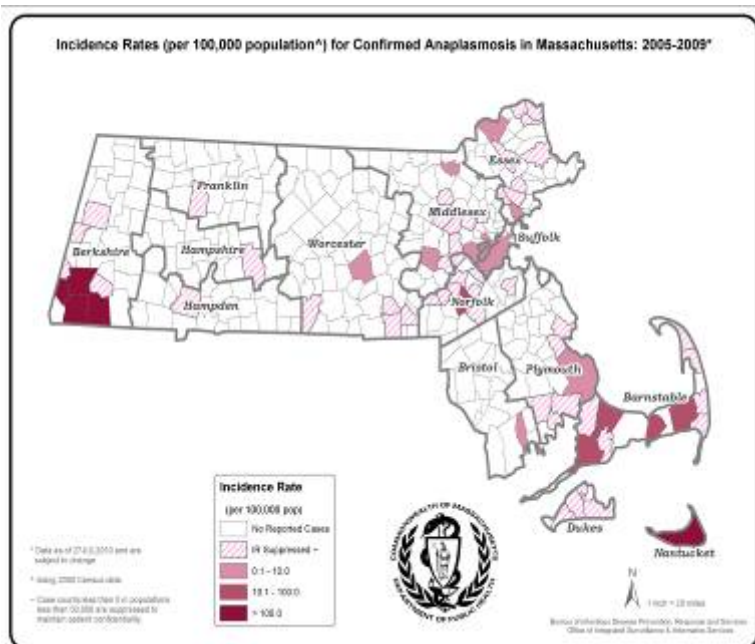
Surveillance in Massachusetts, 2009

Massachusetts Department of Public Health

2009 Surveillance Highlights

- 61 confirmed cases of HGA cases were reported in Massachusetts in 2009, representing a 49% increase from the number of cases reported in 2008.
- Regions with the highest incidence included southern Berkshire County, as well as Barnstable County and the islands of Nantucket and Martha's Vineyard.
- The highest number of confirmed cases occurred in May and June. Only 44% of confirmed cases reported knowing that they had a recent tick bite.
- The average age for a confirmed HGA case was 53.3 years and 65% were male.
- 37% of confirmed cases were hospitalized. The average age for a confirmed case who was hospitalized was 60.5 years.
- The most common symptoms reported by confirmed cases included fever (98%), myalgia [muscle aches] (94%), and malaise (91%).

The map below illustrates HGA incidence rates per 100,000 by city and town of residence in Massachusetts from 2005-2009. Areas of highest incidence include southern Berkshire County, Cape Cod and the Islands, and in a number of towns on the border of Middlesex and Norfolk Counties. No confirmed cases of HGA were reported from Franklin, Hampden, Hampshire, or Suffolk Counties in 2009.



County	2009 Confirmed Cases (#)	2009 Incidence Rate (per 100,000)
Cape Cod & Islands**	8	3.2
Berkshire	21	15.6
Bristol	1	0.2
Essex	3	0.4
Franklin	0	0
Hampden	0	0
Hampshire	0	0
Middlesex	13	0.9
Norfolk	10	1.5
Plymouth	2	0.4
Suffolk	0	0
Worcester	3	0.4
State Total	61	1.0

**Statistics for Barnstable, Dukes, and Nantucket counties are combined in accordance with confidentiality guidelines

Figure 1.

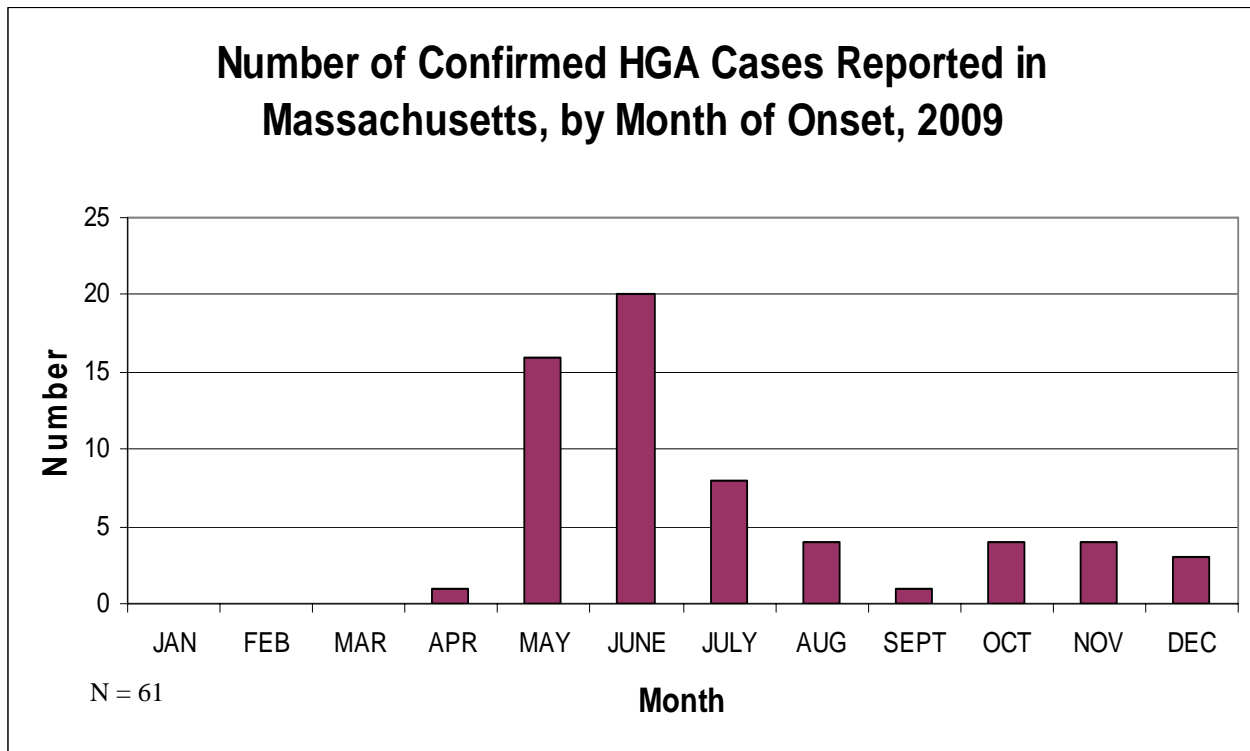


Figure 2.

